

ZORINA, A.A. (Karaganda, ul. Lenina, d.17, kv.18)

Early reversible morphological changes in the ganglia of the autonomic nerves in disorders of blood circulation in the latter. Arkh. anat. gist. 1 embr. 36 no.3:22-29 Mr '59.
(MIRA 12:7)

1. Kafedra gistologii Kazanskogo meditsinskogo instituta (zav. - asst. deyatel' nauki prof. A. N. Mislavskiy [deceased] and Karagandinskogo meditsinskogo instituta (zav. - dotsent A.A. Zorina)

(GANGLIN, AUTONOMIC, blood supply
ischemia of cervical ganglia, early reversible morphol.
changes in cats (Rus))

ZORINA, A. A.

Zorina, A. A. - "The cytology of the front portion of the human hypophysis in various stages of embryological development", Trudy Medinstituta (Izhev. gos. med. in-t) Vol. VI, 1943, p. 119-24.

SO: U-4110, 17 July 53, (Letopis 'Zhurnal 'nykh Statey, No. 19, 1949).

FUNIKOV, A.V., kand.tekhn.nauk; ZORINA, A.P., inzh.

Cleaning the pumping equipment of air-borne sprayers from the
2,4-D ester residues. Zashch. rast. ot vred. i bol. 6 no.5:34
My '61. (MIRA 15:6)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut
Grazhdanskogo vozdušnogo flota.
(Spraying and dusting equipment--Maintenance and repair)

ZORINA, A.V., starshiy inzhener; ESTULINA, A.I., inzh.; BULATOVA, A.M.,
inzh.; ALEKSEYEV, S.A., dotsent, red.; SMIRNOVA, G.V., tekhn.red.

[Time norms for die and precision casting operations in foundries
for general machinery manufacture] Obshchemashinostroitel'nye
normativy vremeni na liteinye raboty pri lit'e pod davleniem i po
vyplavljaemym modeliam. Moskva, Gos.nauchno-tekhn.izd-vo mashino-
stroit.promyshl. 1959. 58 p.
(MIRA 12:12)

1. Moscow. Nauchno-issledovatel'skiy institut truda. Tsentral'noye
byuro promyshlennykh normativov po trudu. 2. Nauchno-issledovatel'-
skiy institut tekhnologii i organizatsii proizvodstva aviatsionnoy
promyshlennosti (for Zorina, Estulina, Bulatova).
(Die casting) (Precision casting)

ZORINA, A.V.; ESTULINA, A.I., inzh.; BOGOSLOVSKIY, S.S., inzh. ;
DEYEVA, N.A., inzh.; DYUKOVA, L.M., inzh.; MOISEL', B.I.,
tekhn. red.; DEMKINA, N.F., tekhn. red.

[Time norms for machine and manual molding operations for iron, steel, and nonferrous metal founding in general machinery construction; batch and small-run production] Obshchamashinostroitel'nye normativy vremeni na mashinnuiu i ruchnuiu formovku liteirnykh form dlia chugunnogo, stal'nogo i tsvetnogo lit'ia; seriinoe i malokseriinoe proizvodstvo. Moskva, Mashgiz, 1962. 322p.

(MIRA 15:7)

1. Moscow. Tsentral'noye byuro promyshlennykh normativov po trudu.
 2. Nauchno-issledovatel'skiy institut aviatsionnoy tekhnologii (for all except Model', Demkina).
- (Founding--Production standards)

ZORINA, A.V., starshiy inzhener; ESTULINA, A.I., inzh.; BULATOVA, A.M., inzh.; ALEKSEYEV, S.A., dot., red.; VLADIMIROVA, L.A., tekhn. red.

[Time norms established in the general machinery industry for die casting and precision casting operations] Obshcheyashino-stroitel'nye normativy vremeni na liteinye raboty pri lit'e pod davlenie i po vyplavlyayemykh modeliam. Moskva, Mashgiz, 1962. 57 p. (MIRA 15:10)

1. Moscow. Tsentral'noye byuro promyshlennykh normativov po trudu.
2. Nauchno-issledovatel'skiy institut mashinostroyeniya i tekhnologii (for Zorina, Estulina, Bulatova).
(Die casting—Production standards)
(Precision casting—Production standards)

ZORINA, Dora Yul'yevna; ALEKSEYEV, G.A., red.; ROMANOVA, N.I., tekhn, red.

[British trade unions and labor's struggle for unity of action]
Angliiskie tred-iuniony i bor'ba za edinstvo deistvii rabochego
klassa. Moskva, Izd-vo In-ta mezhdunar.otnoshenii, 1959. 237 p.
(MIRA 13:4)

(Great Britain--Labor and laboring classes)
(Great Britain--Trade unions)

ZORINA, L.A.; VANSHTEYN, I.A. (Moskva)

Therapeutic significance of complexons in chronic lead poisoning.
Gig.truda i prof.zab. 3 no.1:7-11 Ja-P '59. (MIRA 12:2)

1. Institut gigiyeny truda i profzabolevaniya AMN SSSR i kafedra
profzabolevaniy Tsentral'nogo instituta usovershenstvovaniya vrachey.
(LEAD POISONING)
(ACETIC ACID)

ZORINA, I. Z. S. and SHKABARA, Ye. A.

"Ferrite-core Gates Controlled by Triode Transistors."

The authors explain why gates with magnetic elements in a flip-flop circuit using triode transistors are preferable to gates using diode-transformers in the same circuit. There are 5 references, of which 4 are Soviet and 1 English.

Voprosy vychislitel'noy matematiki i tekhniki (Problems in Computer Mathematics and Technique) Kiev, Izd-vo An Ukr SSR, 1958, 97 pp. (Sbornik trudov, vyp 3)

This collection of articles issued by the computer Center of Ukr SSR Acad Sci is intended for scientists and engineers in the field of computer mathematics and techniques. The collection is devoted to the programming of mathematical problems on electronic computers and to the design of units and components of these machines.

ZORINA, D.

ZORINA, D.

Book about the structure of wages in Great Britain ("Social bases
of wage policy" by Barbara Button. Reviewed by D. Zorina). Sots.
trud no. 154-159 Ag '57. (MLRA 10:9)

(Great Britain--Wages)

GUROVICH, Polina Veniaminovna; ZORINA, D.Ya., otvetstvennyy redaktor;
GINTSBERG, L.V., redaktor izdatel'stva; MAKUNE, Ye.V., tekhnicheskii
redaktor

[Raise of the labor movement in England during 1918-1921] Pod*en
rabochego dvizheniia v Anglii v 1918-1921 gg. Moskva, Izd-vo Akademi
 nauk SSSR, 1956. 222 p. (MIRA 9:11)

(Great Britain--Labor and laboring classes)

USSR / Farm Animals. General Problems.

Q-1

Abs Jour: Ref Zhur-Biol., No 12, 1958, 54676.

Author : Priselkova, D. O., Zorina, N. R.

Inst : Not given.

Title : Vessels Conveying Blood to the Skin and the Intracutaneous Blood Vessels.

Orig Pub: Tr. Vses. n.-i. in-t vet. sanitarii i ektop-arazitol., 1957, 11, 67-76.

Abstract: The blood-vascular system of 18 sheep of the "Soviet Merino" breed, 2 kids, and 6 rabbits was perfused through the jugular vein with Tyrode's solution (2 liters) under ether narcosis; thereafter, a contrast substance of variegated color (composition: chalk 25 pts., dye 5 pts., oil 6 pts., benzene 50 pts.) was injected into the carotid artery and jugular vein. The skin was studied in relation to the

Card 1/2

CA

2

Viscosity of binary liquid systems in the critical region.
 V. K. Semenchuk and B. L. Zorin. *Doklady Akad. Nauk S.S.S.R.* 72, 381-2 (1960). -- The previously reached conclusion that the process underlying mass and order transitions in the formation of dispersed system (C.A. 42, 5321d), and that the point of reversal of the emulsion formed near the crit. temp. of mixing of a binary liquid system calls for a max. of the viscosity η at that point (*Vestnik Akad. Nauk S.S.S.R. Ser. Khim. Nauk*, No. 11, 163 (1964)), was tested by detn. of η as a function of the temp. for mixts. of $C_{12}H_{26}$ with $PhNO_2$, 38.5, 40.3, 42.6, 43.0, and 43.7 mol. % of the latter. Near the crit. temp., readings were made by temp. intervals of the order of 0.03°. At all the above compos., the curves showed very sharp peak-shaped maxima, extending over a temp. interval of 1.25-1.75°. Even more pronounced are the peaks of the temp. coeff. $d\eta/dt$. Their position can be used for an accurate detn. of the crit. temp. of mixing of the given system.
 N. Thon

C. A.

Viscosity of binary liquid systems in the critical region.
V. K. Samchenko and E. L. Zorina (M.I. Kurnakov Inst.
Gen. Inorg. Chem., Moscow). *Doklady Akad. Nauk
S.S.S.R.* 89, 903-4 (1961).—Polytherms of the viscosity η
of the systems (I) $\text{Et}_3\text{N}-\text{H}_2\text{O}$ and $\text{PhNO}_2-\text{C}_6\text{H}_6$ (II) show a
gradual and continuous increase of the height and sharpness
of the max. of η as the crit. miscibility compn. is approached.
The range of temp. and compn. in which the crit. phenomena
are observed is the same for both systems, 1.0-1.5° and 10
mole %. The peak of η in that crit. region is at least 30%
in excess of the value that would correspond to a linear in-
crease; in the crit. temp. range, the deriv. $d\eta/dt$ with re-
spect to temp. is in system I about 70, and in II about 35,
times as great as outside the crit. compn. range. The rise
of η with the change of temp. and compn. is accompanied
by an increase of the opalescence, which becomes max. at
the crit. temp. and compn.; beyond the max. of η the
opalescence goes over into a milky turbidity. The max. of
 η and of opalescence at the crit. point correspond to the
max. possible microheterogeneity for the given system; the
milky turbidity corresponds to sudden perturbation of the
microheterogeneity and appearance of macroheterogeneity.
The exact temp. t_c corresponding to the peak of η varies
with the compn. c . The curves of η as a function of c ,
distinctly different from the usual curves of miscibility,
constructed as a function of the temp. of disappearance of
the meniscus. It shows that the latter temp. does not
coincide with the point at which the properties of the 2

phases are clouded. Further, the properties of the 2 liquids
are closest at the temp. of the peak of η and max. macro-
heterogeneity, where a temp. change of 0.01°, or possibly
less, is sufficient to bring about a sign. of the phases. The
 t_c vs c curves of I (system with a lower crit. temp. of mixing)
indicate predominance of undercooling, whereas the curves
of II (system with an upper crit. temp.) indicate predomi-
nance of superheating; these undercooling or superheating
effects are greater, the closer the systems are to crit. compn.
These phenomena are analogous to those observed in the
intermediate state of superconductors. M. Tsou

1ST AND 2ND PROPERTIES										PROCESSES AND PROPERTIES INDEX										3RD AND 4TH PROPERTIES									
<p>Loss of tann during the dilution of oak extract. P. A. Gerasimov and A. V. Doron. <i>Kashchinsk (Kashchinsk) Revue</i>. S. S. S. R. 18, No. 11, 44-5(1956).---Treatment with sulfites almost completely prevents poth. (during centrifuging) of oak ext. Dila. of the ext. with spent tanning solns. causes less loss than dila. with water. The loss of tann is increased with decrease in the quality of the spent tanning soln. A. A. Podgorny</p>																													
<p>ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION</p>																													
1ST AND 2ND PROPERTIES										PROCESSES AND PROPERTIES INDEX										3RD AND 4TH PROPERTIES									
1ST AND 2ND PROPERTIES										PROCESSES AND PROPERTIES INDEX										3RD AND 4TH PROPERTIES									

ZORINA, E.G.

TUR, A.F., professor, redaktor; ZORINA, E.G., redaktor; GAMAULINA, A.S.,
tekhnicheskiy redaktor; RULEVA, N.S., tekhnicheskiy redaktor.

[Manual on dietetics for small children] Spravochnik po dietetike
detei rannego vozrasta. Izd. 6., ispr. i dop. [Leningrad] Med-
gis, Leningradskoe otd-nie, 1954. 287 p. (MIRA 7:8)

1. Zaslushennyy deyatel' nauki, deystvitel'nyy chlen AMN SSSR
(for Tur)
(Infants--Nutrition)

ZORINA, E. I.

TT. 298 (The viscosity of binary liquid systems i n the critical region) Viaknost'
dvoinykh zhidkikh sistem v kriticheskoi oblasti.
Doklady Akademii Nauk SSSR, 80(6): 903-905, 1951

ZORINA, E.S.

ZORINA, E. S., KERBIKOV, O. V.

Narcotherapy of schizophrenia by intravenous drip of alcohol
containing fluid. Nevropat. psikhiat., Moskva 19:6, Nov.-Dec. 50.
p. 43-9

1. Yaroslavl'.

CLML 20, 3, March 1951

KERBIKOV, O. V., ZORINA, E. S., IL'INSKIY, Yu. A.

Alcohol - Physiological effect

Concerning Prof. E. IU. Karu's remarks "On the determination of alcohol in the blood by the Vidmark method." Zhur. nevr. i psikh. 52 No. 3, March 1952.

Monthly List of Russian Accessions, Library of Congress, August, 1952. Unclassified.

KERBIKOV, O.V. ZORINA, E.S. IL'INSKIY, YU. A.

Alcohol-Physiological effect

Concerning Prof. E. IU. Karu's remarks "On the determination of alcohol in the blood by the Vidmark method". Zhur. nevr. i psikh. 52 No. 3 March 1952

Monthly List of Russian Accessions, Library of Congress, August, 1952 Unclassified

SAKALI, L.I.; ZORINA, G.I.

Comparative characteristics of radiation balance of the ground and
the sea surface in the coastal zone. Trudy Uchebno-Metod. no.20:28-35
'60.

(MIRA 1:12)

(Solar radiation)

"APPROVED FOR RELEASE: 03/15/2001

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APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R002065420020-0"

1. The first step is to identify the key components of the system. This includes understanding the hardware, software, and data involved.

1. 1. 1.

ZORINA, G.I.

Atmospheric transparency in the coastal part of the Black Sea.
Trudy OGMI no.21:31-34 '60. (MIRA 14:10)
(Black Sea region—Atmospheric transparency)

ZORINA, G.S., student VI kursa; TSFASMAN, V.A., student VI kursa

Observations on the course of rheumatism in infants and in pre-school children. *Pediatrics* 39 no.2:55-58 Mar-Apr '56. (MLRA 9:8)

1. Iz kafedry fakul'tetskoy pediatrii (zav. prof. L.D.Shteynberg [deceased]) Voronezhskogo meditsinskogo insituta
(RHEUMATISM, in infant and child,
course in inf. & preschool child. (Rus))

PETROV, Ye.I.; VOL'NOVA, Z.G., nauchn. red.; ZORINA, G.V., red.

[New knitting machines of the German Federal Republic]
Novye trikotazhnye mashiny FRG. Moskva, 1963. 49 p.
(Seria III. Novye mashiny, oborudovanie i sredstva av-
tomatizatsii, no.68) (MIRA 17:8)

1. Moscow. Tsentral'nyy institut nauchno-tekhnicheskoy
informatsii po avtomatizatsii i mashinostroeniyu.

IVANOV, Yu.V.; VOL'NOVA, Z.G., nauchn. red.; ZOLIN, G.V., red.

[Modern tanning and scouring machines for leather production; foreign technology] Sovremennye otzhimnye i razvodnye mashiny kozhevennogo proizvodstva; zarubezhnaia tekhnika. Moskva, TSentr. in-t nauchno-tekhn. informatsii po avtomatizatsii i mashinostroeniiu TsBTI, 1963. 49 p. (Seria III: Nove mashiny, oborudovanie i sredstva avtomatizatsii.) (MIRA 17:6)

ZUYKOV, V.Ya.; IVANOV, A.M.; KRISTALL, Z.B.; MAKSIMOVA, N.K.; NOVIKOV, O.P.; POTKOV, G.A.; KRIKUNOV, A.Ye., red.; SELEKHOV, F.M., red.; SHUVALOVA, N.S., red.; ZORINA, G.V., red.; VINOGRADOV, Ye.A., tekhn. red.

[Liquid separators for the food industry; handbook-catalog] Separatory zhidkostnye dlia pishchevoi promyshlennosti; katalog-spravochnik. Moskva, 1962. 86 p. (MIRA 15:10)

1. Moscow. Tsentral'nyy institut nauchno-tekhnicheskoy informatsii mashinostroyeniya. 2. Vsesoyuznyy nauchno-issledovatel'skiy i eksperimental'no-konstruktorskiy institut proizvodstva mashinostroyeniya (for Zuykov, Ivanov, Kristall, Maksimova, Novikov, Potkov).

(Separators (Machines))

KOVALENKO, N.A.; TOMBAYEV, N.I.; KRIKUNOVA, A.Ye., red.; SEIKENHOVA, P.M.,
red.; ~~BEKUNOVA, N.S., red.~~; ZOBINA, G.V., red.; VINOGRADOV, Ye.A.,
tekhn. red.

[Catalog; technical equipment of dairy industry enterprises]
Katalog; tekhnologicheskoe oborudovanie predpriyatii moloch-
noi promyshlennosti. Moskva, 1962. 123 p. (MIRA 15:11)

1. Moscow. Tsentral'nyy institut nauchno-tekhnicheskoy infor-
matsii mashinostroyeniya. 2. Vsesoyuznyy nauchno-issledovatel'-
skiy i eksperimental'no-konstruktorskiy institut prodovol'-
stvennogo mashinostroyeniya (for Kovalenko, Tombayev).
(Dairy industry--Equipment and supplies)

STRAKHOV, V.V., kand. tekhn. nauk; GISIN, I.B., kand. sel'khoz. nauk;
KUZ'MIN, Yu.N.; TOMBAYEV, N.I.; SHUVALOVA, N.S., nauchnyy
red.; ZORINA, G.V., red.; KOVAL'SKAYA, I.F., tekhn. red.

[Modern equipment for making creamery butter] Sovremennoe ob-
rudovanie dlia proizvodstva slivochnogo masla. Moskva, TSentr.
in-t nauchno-tekhn. informatsii mashinostroyeniya, 1962. 55 p.
(MIRA 16:4)

(Food machinery--Design and construction)
(Creameries--Equipment and supplies)

VIZZHILINA, V.N.; GOLOVANOVA, N.A.; ZORINA, I.K.

Dyeing and finishing of lavsan cloth. Nauch.-issl. trudy VNIITP
no. 5879-84 '64 (MIRA 1981)

USSR/ Biology - Parasitology

Card 1/1 : Pub. 22 - 46/46

Authors : Terina, I.

Title :
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For :
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L 3225-66 ENT(1)/ENT(m)/FCC/ENH(h) OS/EN

ACCESSION NR: AT5023924

UR/0000/65/000/000/0047/005644

AUTHOR: Miller, V. B. (Deceased); Malakhov, S. G.; Zorina, H. I.; Sisigina, T. I.

TITLE: Ridge concentration and vertical turbulent mixing in the surface boundary layer of the atmosphere

SOURCE: Nauchnaya konferentsiya po yadernoy meteorologii. Obninsk, 1964. Radio-

1961-1962 nuclear geochronology, also some geology, atmospheric physics, large layer
of the atmosphere, and some other topics. The book is written for a general audience.

[illegible]

L 3225-66

ACCESSION NR: AT5023924

a surface boundary layer inversion. The effect of vertical turbulent mixing on the
inversion layer was determined to be of major
importance in the development of the inversion layer. (ER)

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BESSONOV, Ivan Ivanovich; ZORINA, K.I., red.; SKLYAROVA, Ye.I.,
tekhn. red.

[Lectures on theoretical mechanics] Lektsii po teoretiche-
skoi mekhanike. Kirov, 1960. 171 p. (MIRA 17:4)

ZORINA, L. A.

Occupational Diseases

Dissertation: "Rate of Blood Flow in Separate Sections of the Circulatory Systems in Patients with Silicosis and Toxic Pneumosclerosis." Cand Med Sci, Central Inst for the / Advanced Training of Physicians, 16 Mar 54. (Vechernaya Moskva, Moscow, 4 Mar 54).

SO: SUM 213, 20 Sep 54

DROGICHINA, E.A.; RASHEVSKAYA, A.M.; YEVGENOVA, M.V.; ZORINA, L.A.; KOZ-
LOV, L.A.; KUZNETSOVA, R.A.; RYZHKOVA, M.N.; SHINKEVICH, N.A.; BO-
LOV'YEVA, L.V.[deceased]; SHATALOV, N.N.; LETAVET, A.A., prof., red.;
YEGOROV, Yu.L., red.; BUL'DYAYEV, N.A., tekhn. red.

[Manual on periodic medical examinations for industrial workers] Po-
sobie po periodicheskim meditsinskim osmotram rabochikh promyshlen-
nykh predpriatii. By E.A.Drogichina i dr. Moskva, Medgiz, 1961.
287 p. (MIRA 14:12)

(INDUSTRIAL HYGIENE)

ZORINA, L.A., kandidat meditsinskikh nauk

Speed of blood flow as a method for the functional diagnosis of
silicosis and toxic pneumosclerosis. Bor'ba s sil. 2:257-262 '55.

(MLRA 9:5)

1. Institut gigiyeny truda i profzabolevaniy Akademii meditsinskikh
nauk SSSR

(BLOOD--CIRCULATION, DISORDERS OF)

(LUNGS--DUST DISEASES)

ROZENBERG, P.A.; ZORINA, L.A.

Nitrogen fraction in blood in silicosis. Terap.arkh. 28 no.3:79-83
'56. (MLBA 9:8)

1. Iz Instituta gigiyeny truda i profzabolevaniy AMN SSSR (dir.
deystvitel'nyy chlen AMN SSSR prof. A.A.Letavet)

(NITROGEN, in blood

excess & urea nitrogen in silicosis)

(SILICOSIS, blood in

nitrogen excess & urea nitrogen level)

ZORINA, L.A., OMEL'YANENKO, L.M., SENKEVICH, N.A.

Characteristics of hemopoiesis in chronic benzene poisoning [with
summary in English, p.64]. Probl.gemat. i perel.krovi 3 no.3:31-35
My-Je '58 (MIRA 11:6)

1. Iz kafedry profpatologii (zav. - prof. A.L. Morozov) Tsentral'nogo
institute usovershenstvovaniya vrachey.
(BLOOD DISEASES, etiology and pathogenesis,
benzene pois. (Rus))
(BENZENE, poisoning,
causing blood dis. (Rus))

ZORINA, L.A.

Use of vitamin B6 in chronic benzene poisoning. Prohl. gemat. i
perel. krovi 5 no. 9:31-34 '60. (MIRA 14:1)
(BENZENE—TOXICOLOGY) (FOLIC ACID)

ZORINA, L.A., kand.med.nauk

Hepatitis in chronic benzene poisoning. Sov. med. 24 no. 10:101-104 0 '60.
(MIRA 13:12)

1. Iz kliniki Instituta gigiyeny truda profzabolevaniy (dir. - deystvitel'nyy chlen AMN SSSR prof. A.A. Letavet) AMN SSSR i kafedry professional'nykh bolezney (zav. - prof. A.I. Morozov) Tsentral'nogo instituta usovershenstvovaniya vrachey (dir. M.D. Kovrigina).
(LIVER—DISEASES) (BENZENE—TOXICOLOGY)

VASIL'YEVA, O.G.; ZORINA, L.A.; SANINA, Yu.P. (Moskva)

Treatment of benzene intoxication with vitamin B₁₂ and folic acid; experimental and clinical data. Gig. truda i prof.zab. 5 no.6:30-33 Je '61. (MIRA 15:3)

1. Institut gigiyeny truda i profzabolevaniy AMN SSSR
TSentral'nyy institut usovershenstvovaniya vrachey.
(BENZENE TOXICOLOGY)
(CYANOCOBALAMIN)
(FOLIC ACID)

NASHEVSKAYA, A.M.; ZORINA, L.A. (Moskva)

Bronchial asthma in workers of establishments producing antibiotics. Gig. truda i prof. zab. 6 no.5128-33 My'62.

(MIRA 16:8)

1. Tsentral'nyy institut usovershenstvovaniya vrachey.
(ASTHMA) (ANTIBIOTICS)

KONCHALOVSKAYA, N.M., prof.; ZORINA, L.A., kand. med. nauk

Changes in the blood system in some occupational poisonings.
Trudy 1-go MMI 28:148-159 '64.

(MIRA 17:11)

1. Klinicheskiy otdel Instituta gigiyony truda i professional'nykh
zabolevaniy (dir. - deystvitel'nyy chlen AMN SSSR prof. A.A. Ista-
vet) i kafedra professional'nykh bolezney (zav. - prof. A.M. Ra-
shevskaya) Tsentral'nogo instituta usovershenstvovaniya vrachey.

ZORINA, Larisa Anatol'yevna; KOFAYEV, V.V., red.

[Clinical aspects, diagnosis, treatment and prevention
of lead poisoning] Klinika, diagnostika, lechenie i
profilaktika svintsovykh otravlenii. Moskva, Meditsina,
1965. 58 p. (MIRA 18.6)

L 22443-66 ENT(m)/EMP(j) IJP(c) WH/RM
ACC NR: AP6006360 (A) SOURCE CODE: UR/0413/66/000/002/0095/0095

AUTHOR: Pashchenko, D. I.; Vtorygin, S. M.; Klaymenov, N. A.;
Markevich, A. M.; Volokhonovich, I. Ye.; Nosov, E. F.; Zorina, L. B.

ORG: none

TITLE: Preparation of polytetrafluoroethylene, Class 39, No. 178104
[announced by Institute of Chemical Physics, AN SSSR (Institut
khimicheskiy fiziki AN SSSR)]

SOURCE: Izobreteniya, promyshlennyye obrastay, tovarnyye znaki, no. 2,
1966, 95

TOPIC TAGS: polytetrafluoroethylene, polymerization, polymerization
initiator

ABSTRACT: A method of preparing polytetrafluoroethylene through poly-
merization of tetrafluoroethylene under ultraviolet light in the
presence of initiators is described. In order to obtain polymers with
an extensive surface area, perhalogenated freons are proposed for use
as initiators.

[LD]

SUB CODE: 071

SUBM DATE: 22Feb65/

Card 1/1 HUN

UDC: 678.743.41.002.2

ZORINA, L. M.

"Harmful 'dolgonozhki' of the northwestern zone of the nonchernozem belt in the USSR." Min Higher Education USSR. Leningrad Agricultural Inst. Leningrad, 1955. (Dissertations for the Degree of Candidate in Agricultural Science)

So: Knizhnaya letopis', No. 16, 1956.

FEL'DMAN, I.Kh.; Priimali uchastiye: ZORINA, L.M., studentka; SHTOK,
E.Sh., student; STEPANOVA, R.I., studentka

Amino sulfides and amino sulfones. Part 22: Reaction of
sulfonomethylation of amino acids. Zhur.ob.khim. 32 no.4:1043-
1046 Ap '62. (MIRA 15:4)

1. Leningradskiy khimiko-farmatsevticheskiy institut.
(Amino acids) (Sulfones)

ZORINA, L.Ya. (Tula)

Study of natural oscillations in the physics course, Fiz.v
shkole 22 no.5:99-101 S-O '62. (MIRA 15:12)
(Oscillations) (Physics--Study and teaching)

S/149/60/000/005/004/015
A005/A001

AUTHORS: Korshunov, V.G., Morozov, I.S., Icnov, V.I., and Zorina, M.A.
TITLE: Physical and Chemical Studies of the AlCl_3 - FeCl_3 - NaCl System
PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Tsvetnaya metallurgiya, 1960, No. 5, pp. 67-71

TEXT: The authors studied the interaction of aluminum, iron and sodium chlorides by the method of thermal and tensiometric analysis for the purpose of developing chemical and physical bases for the refining of chlorides of titanium and other metals. The necessary aluminum and iron chlorides were obtained by chlorination with gaseous chlorine of the respective metals; sodium chloride was preliminary remelted. Melting temperatures of the chlorine salts of aluminum, iron and sodium were 194, 303 and 800°C respectively. Due to the fact that aluminum and iron chlorides have high vapor tensions at their melting temperatures, different mixtures of the system were melted in molybdenum or quartz glass Stepanov containers. The thermal analysis of the system was made by recording the cooling curves on a N.S. Kurnakov type pyrometer. The temperature was measured with a nichrome-constantan thermocouple, graduated according to con-

Card 1/5

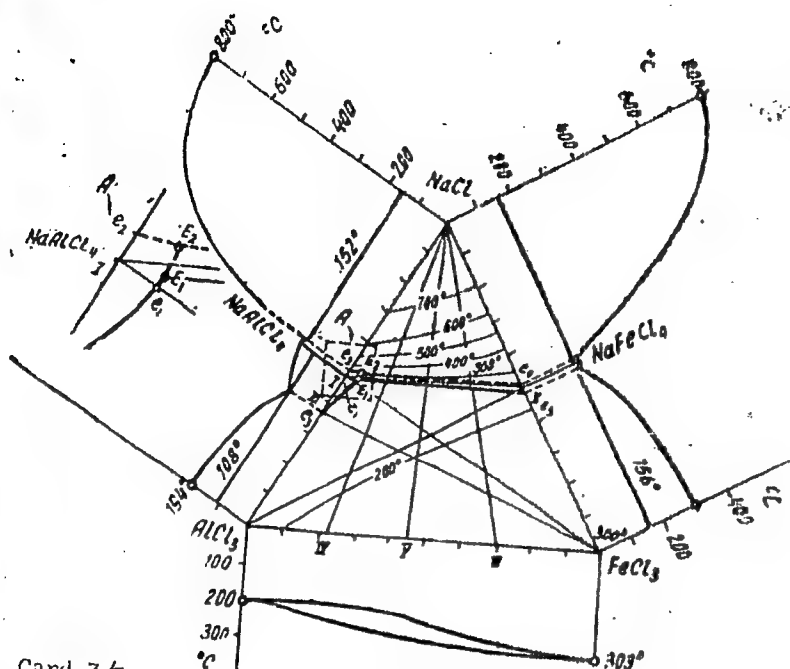
S/149/60/DCO/005/00A/015
A006/A001Physical and Chemical Studies of the AlCl_3 - FeCl_3 - NaCl System

ventional datum points. The ternary system¹ was studied by investigating six internal sections (Figure 1), whose direction was mainly determined by the location of non-variable equilibrium points on the lateral binary diagrams. The compositions are expressed in mole percent. The tensiometric analysis was made to confirm the results of the thermal analysis of the system and to investigate the vapor tension of NaAlCl_4 and NaFeCl_4 compounds during their joint presence under conditions of sodium chloride excess. Vapor tension was determined in chlorine atmosphere by the dynamic method. The formation of a NaFeCl_4 compound in the FeCl_3 - NaCl system and its vapor tension were determined. The results of tensiometric analysis are given in a table. The fusibility diagram plotted may be used for calculations connected with the purification of chlorides of titanium and other elements from aluminum and iron chlorides by means of sodium chloride.

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S/149/60/000/005/004/015
A006/A001

Fig. 1
Fusibility diagram
of the AlCl_3 - FeCl_3 - NaCl
System



S/149/60/000/005/004/015
A006/A001

Physical and Chemical Studies of the $\text{AlCl}_3\text{-FeCl}_3\text{-NaCl}$ System

Results of the tensiometric analysis of three mixtures of the $\text{AlCl}_3\text{-FeCl}_3\text{-NaCl}$ system

No. No. of mixtures	Temperature, °C	Vapor tension, mm Hg	
		NaAlCl_4	NaFeCl_4
1	500		
	530	0,0	0,0
	586	0,2	2,2
	620	1,2	11,8
	650	2,6	15,9
	670	5,1	21,4
2		6,7	25,0
	362		
	423	0,0	0,0
	477	0,9	2,2
	558	1,2	5,9
	590	3,5	12,9
Card 4/5		4,7	21,1

S/149/60/000/005/004/015
A006/A001

Physical and Chemical Studies of the $AlCl_3$ - $FeCl_3$ - $NaCl$ System

No. No. of mixtures	Temperature, °C	Vapor tension, mm Hg	
		Al_2Cl_6	Fe_2Cl_6
3	150		
	161	32,0	1,1
	173	67,2	3,3
	184	129,0	4,9
		272,8	6,1

There are 2 figures, 1 table and 22 references: 12 Soviet, 6 English, 2 French and 2 German.

ASSOCIATIONS: Moskovskiy institut tonkoy khimicheskoy tekhnologii (Moscow Institute of Fine Chemical Technology), Kafedra khimii i tekhnologii redkikh i rasseyannykh elementov (Department of Chemistry and Technology of Rare and Dispersed Elements)
October 27, 1959

SUBMITTED:
Card 5/5

GENTS, Ivan Pavlovich; MONINA, Praskova Vladimirovna; BUYLOV, Ivan Ivanovich;
ZORINA, Mariya Aleksandrovna; AFANAS'YEVA, Valentina Pavlovna;
AGAPOVA, N.P., Kand.tekhn.nauk, retsenzent; ORLOVA, L.A., red.;
MEDVEDEV, L.Ya., tekhn.red.

[Design, operation, and maintenance of the "Tekstima" warping
machine] Ustroistvo, rabota i obsluzhivanie lentochnoi snoval'noi
mashiny tekstima. Moskva, Gos.nauchno-tekhn.ind-vo lit-ry po
legkoi promyshl., 1959. 79 p. (MIRA 12:12)
(Looms)

ACC NR: AP6030781

(A)

SOURCE CODE: UR/0363/66/002/009/1712/1715

AUTHOR: Zorina, M. L.; Setkina, O. N.; Ushakov, L. F.

ORG: Leningrad Technological Institute im. Leningrad (Leningradskiy tekhnologicheskii institut)

TITLE: Infrared spectroscopic study of the course of crystallization in vitreous-crystalline enamels

SOURCE: AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 2, no. 9, 1966, 1712-1715

TOPIC TAGS: catalyzed crystallization, silicate glass, lithium glass, IR spectroscopy

ABSTRACT: The course of directed crystallization of an acid-resistant vitreous-crystalline enamel and coating obtained from this enamel was studied by analyzing IR absorption spectra of the multicomponent system $\text{Li}_2\text{O}-\text{MgO}-\text{Al}_2\text{O}_3-\text{SiO}_2$. The spectra showed that the main crystalline phase in enamel whose crystallization occurred at 700° in the presence of TiO_2 is β -eucryptite, β -spodumene, or their solid solutions and the solid solution β -eucryptite-quartz. In addition, a certain amount of forsterite and rutile also crystallizes. The study of IR spectra made it possible to draw certain conclusion with regard to the phase composition as compared to x-ray structural analysis. However, even though the necessary data were obtained on the crystallization of the enamel, the IR spectra could not be fully interpreted because of their complexity. It is possible that some intermediate compounds responsible for the appearance of the

Card 1/2

UDC: 666.291542.65

ACC NRI AP6030781

unidentified bands are formed during the crystallization. Authors thank O. M. Rinskaya-Korsakova and V. V. Gordiyenko for providing the samples of the mineral studied. Orig. art. has 5 figures.

SUB CODE: 11/ SUBM DATE: 19Dec65/ ORIG REF: 007/ OTH REF: 002

Card 2/2

1 05024-07 EWT(2)/EWT(1)/EWT(1)/ETI TOP(1) JD/MI

ACC NR: AP6032849

SOURCE CODE: UR/0363/66/002/010/1816/1819

AUTHOR: Zorin, A. P.; Zorina, M. L.

ORG: Leningrad Technological Institute im. Lensovet (Leningradskiy tekhnologicheskii institut)

TITLE: Some properties and the structure of glass of the system barium oxide—silicon dioxide—titanium dioxide

SOURCE: AN SSSR. Izvestiya, Neorganicheskiye materialy, v. 2, no. 10, 1966, 1816-1819

TOPIC TAGS: glass, titanium dioxide, glass structure, glass property, titanium containing glass

ABSTRACT: A study was made of the effect of titanium dioxide on the structure and properties of glass of the system $\text{BaO—TiO}_2\text{—SiO}_2$. The results obtained show that the displacement of the main absorption band maximum with changes in the amount of silicon dioxide in titanium-containing glass is linear in pattern. Orig. art. has: 1 table and 3 figures. [Authors' abstract]

SUB CODE: 07,11/ SUBM DATE: 10Jan66/ ORIG REF: 002/ OTH REF: 012/

Card 1/1 LC

UDC: 666.01

ZORINA, M.S.

Remains of the Upper Quaternary flora from Lake Kara-Kul' in the
Pamirs. Mat. po ist. fauny i flory Kazakh. 4:229-233 '63. (MIF 16:9)
(Kara-Kul', Lake--Paleobotany, Stratigraphic)

OKULOVA, A.N.; ZORINA, N.I.

Histostructure of transplanted skin of human fetuses. Ortop.,
travm. i proten. 21 no.11:15-21 '60. (MIRA 14:4)
(SKIN GRAFTING) (FETUS)

ZORINA, N.P. (Sverdlovsk)

Experience gained in organizing the "hospital at home".
Zdrav. Ros. Feder. 6 no.2:33-35 F '62. (MIRA 15:3)
(HOME NURSING)
(HOSPITALS—OUTPATIENT SERVICES)

GOL'DSHTEYN, A.L.; LAPISOVA, N.P.; ZORINA, N.P.

Use of lead tetraethyl as a component of a catalyst for the polymerization of ethylene at low pressure. Plast.massy no.11:3 '60.
(MIRA 13:12)

(Ethylene)

(Polymerization)

88545

158101

S/191/60/000/011/001/016
B013/B054

AUTHORS: Gol'dshteyn, A. L., Lapisova, N. P., Zorina, N. P.
TITLE: Use of Tetraethyl Lead as a Component of the Catalyst for
Low-pressure Ethylene Polymerization
PERIODICAL: Plasticheskiye massy, 1960, No. 11, p. 5

TEXT: The authors studied the possibility of using tetraethyl lead for ethylene polymerization. It was found that polyethylene can be obtained in the presence of a catalyst consisting of tetraethyl lead and titanium tetrachloride. Polymerization was conducted both at atmospheric pressure and in an autoclave at low pressure. The use of a certain pressure favored a more active course of the process, and increased the yield. The polyethylene was eluted with alcohol, with alcohol saturated with hydrogen chloride, and with a mixture of alcohol and aqueous solution of ammonium acetate. The result was a snow-white polymer containing no tetraethyl lead nor any other alkyl-containing lead compounds. The melting point of the resulting polyethylene is 125° - 127° C. The viscosity of a 1% decalin

Card 1/2

88545

Use of Tetraethyl Lead as a Component of
the Catalyst for Low-pressure Ethylene
Polymerization

S/191/60/000/011/001/016
B013/B054

solution is 2.87 - 2.97 centipoise at 135°C. The intrinsic viscosity of
polyethylene varies between 0.825 and 2.2 depending on production condi-
tions. This corresponds to a molecular weight of 56,000 - 210,000. Further
work is being done to improve the production conditions and the quality
of the product. X

Card 2/2

PRISELKOVA, D.O., kand. sel'skokhozyaystvennykh nauk;
ZORINA, M.R., mladshiy nauchnyy sotrudnik

Structural changes in the skin related to age during two and a
half years of the postembryonic life of Merino sheep. Trudy
VNIIVSE 11:37-49 '57. (MIRA 11:12)
(Sheep--Anatomy) (Skin)

PRISELKOVA, D.O., kand. sel'skokhozyaystvennykh nauk;
ZORINA, N.R., mladshiy nauchnyy sotrudnik

Cutaneous blood vessels and vessels leading to the skin.
Trudy VNIIVSE 11:67-76 '57. (MIRA 11:12)
(Skin--Blood supply) (Sheep--Anatomy)

ZORINA, N.R., vetvrach

Structure of the skin of Merino sheep at different periods of the year. Trudy VNIIVSE 12:281-300 '57. (MIRA 11:12)

1. Laboratoriya profilaktiki i terapii ektoparazitarnykh zabolevaniy sel'skokhozyaystvennykh zhiivotnykh Vsesoyuznogo nauchno-issledovatel'skogo instituta veterinarnoy sanitarii i ektoparazitologii.

(Skin) (Sheep)

L 26729-66

ACC NR: AP6003392

was observed in leukocyte cultures infected with African hog cholera virus; it may be successfully used for laboratory diagnosis and differentiation from the European disease form. Specificity of the reaction is reliable. Positive results were obtained in a large number of experiments. Orig. sent: 2 figures.

SUB CODE: 06/ SUBM DATE: none/ OTH REF: 009

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15721-66

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D207/D306

AUTHORS: Zorina, N. S., and Patrina, N. A. Candidate of Technical Sciences

TITLE: Sintered metal soft magnetic material for automobile electrical equipment parts

PERIODICAL: Avtomobil'naya promyshlennost', no. 2, 1960, 38

TEXT: The NIITAvtoprom (Technological Scientific Research Institute of the Automobile Industry) and the NIIAvtopribor (Scientific Research Experimental Institute of Automobile Electrical Equipment and Instruments) have studied the possibility of manufacturing magnetic conducting parts in automobile electrical equipment from cheap iron powder derived from the reduction of rolling-mill scale. Their research has shown that electric motor stators can be manufactured from AM reduced iron powder by a technological process which includes: roasting the powder in a hydrogen atmosphere at 700°C for 2 hours; screening; pressing at 8 ton/cm²; sintering in a hydrogen atmosphere at 1,150-1,170°C for 1.5 hours; calibration

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Sintered metal soft magnetic...

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to the required dimensions. By this method the impurities content (mostly carbon) in the sintered material is reduced, ensuring the necessary magnetic properties. The chemical composition of the powder in its original state/and after sintering is: C 0.120/0.019%; Si 0.290/0.220%; S 0.030/0.030%; P 0.017/0.015%; Mn 0.420/0.390%; O₂ 0.760/ - %. At a relative porosity 10% sintered iron powder has the following magnetic properties: coercivity 1.99 ergs; maximum magnetic permeability 2,290 gauss/erg; magnetic induction 13,550 gauss at 50 ampere-turns/cm; specific resistance 0.12-0.15 ohm/mm³/m. Laboratory and industrial tests show that sintered metal stators give normal and steady running of the electric motor. The manufacturing method is less laborious and saves material. There are 1 figure and 1 table.

ASSOCIATION: NIITAvtoprom (Technological Scientific Research Institute of the Automobile Industry); NIITAvtopribor (Scientific Research Experimental Institute of Automobile Electrical Equipment and Instruments)

Card 2/2

ZORINA, H.S.; PATRINA, N.A., kand.tekhn.nauk

Metal-powder soft-magnetic materials for parts of electric equipment of automobiles. Avt.prom. no.2:38 F 60. (MIRA 13:5)

1. NIITavtoprom i Nauchno-issledovatel'skiy eksperimental'nyy institut avtotaraktornogo elektrooborudovaniya i priborov.
(Automobiles--Electric equipment)

LOISEL, Nina Vyacheslavovna

Of the question of early diagnosis of cancer of the thyroid gland.

Dissertation for candidate of a Medical Science Degree.

Chair of hospital Surgery (head prof. N.I. Krause) Sam-tov Medical
Institute, 1950

SOV/20-121-1-39/55

AUTHORS: El'piner, I. Ye., Deborin, G. A., Zorina, O. M.

TITLE: The Molecular Weight of Serum Albumin, Exposed to Ultra-Sonic Waves in the Presence of Different Gases (Molekulyarnyy ves syvorotochnogo al'bumina, obluchennogo ul'trazvukovymi volnami v prisutstvi razlichnykh gazov)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol 121, Nr 1, pp. 138-140 (USSR)

ABSTRACT: Under the influence of ultra-sonic waves not only synthetic polymers but also a number of polymerized substances are depolymerized from organism cells. This takes place in the field of these waves with nucleic acids, starch, dextrane, and with several mucopolysaccarides (Refs 1-4). One fact is common for all these substances: no monomers are produced, but particles which still have a comparatively high molecular weight. The mentioned depolymerization process is stopped after a certain loss of molecular weight. Thus egg-albumin and its complexes with ergosterol after having been exposed to ultra-sonic waves for 20 minutes lose approximately 20% of their molecular weight. After this no further changes are observed (Ref 5). In the

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SOV/20-121-1-39/55

The Molecular Weight of Serum Albumin, Exposed to Ultra-Sonic Waves in the Presence of Different Gases

present paper the same is proved for other proteins (serum albumin). In this case, however, an enlargement of the protein molecules takes place. The character of the changes mainly depends on the nature of the gas with which the protein solution exposed to ultra-sonic waves is saturated. Aqueous solutions of horse albumin recrystallized twice and dried lyophilically, served as experimental object. The solution was poured into the glass tubes in the so-called ultra-sonic fountain (oscillation frequency 740 kilo cycles, sound pressure of waves $\sim 4 \text{ watt/cm}^2$). Table 1 shows the values of the molecular weight of the serum albumin which was exposed to ultra-sonic waves in the presence of air. This shows that the molecular weight is reduced with a longer duration of acoustic irradiation. After 50 minutes the reduction amounts to almost 50%. Such a loss could not be caused by the splitting off of the one or other lateral- or terminal group. In the case of the used intensity forces develop which are sufficient for the breaking of C-C bonds (Ref 7). We may assume that polypeptide bonds are broken here and rather great molecular splinters are formed.

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SOT/20-121-1-39/55

The Molecular Weight of Serum Albumin, Exposed to Ultra-Sonic Waves in the Presence of Different Gases

The latter do not lose the capacity of forming a monomolecular layer. A fission of the protein molecules was observed also in the case of an acoustic irradiation of serum albumin solutions of higher concentration (Table 2). There is no interaction between the splinters of the protein molecule, they are stable, if the acoustic irradiation takes place in the presence of oxygen (Table 3). The above mentioned investigation makes possible the investigation of the correlation between structure and function of the protein bodies. There are 1 figure, 3 tables, and 9 references, 7 of which are Soviet.

ASSOCIATION: Institut biofiziki Akademii nauk SSSR (Institute of Biophysics, AS USSR) Institut biokhimii im. A. N. Bakha Akademii nauk SSSR (Institute of Biochemistry imeni A. N. Bakh, AS USSR)

PRESENTED: March 10, 1958, by A. I. Oparin, Member, Academy of Sciences, USSR

Card 3/4

SOV/20-121-1-39/55
The Molecular Weight of Serum Albumin, Exposed to Ultra-Sonic Waves in the
Presence of Different Gases

SUBMITTED: March 7, 1958

1. Serum-albumin--Molecular weight 2. Serum-albumin--Effects of radiation
3. Ultrasonic radiation--Physical effects 4. Gases--Physical effects

Card 4/4

KRIGER, Yu.A.; ZORINA, O.M.

Effect of X and gamma rays on unilateral permeability of the skin
in frogs [with summary in English]. Biofizika 4 no.2:209-214 '59.
(MIRA 12:4)

1. Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova.
(SKIN, eff. of radiations,
gamma & x-rays, on permeability in frogs (Rus))
(RADIATIONS, effects,
on skin permeability in frogs (Rus))

EL'PINER, I.Ye.; DEBORIN, G.A.; ZORINA, O.M.

Molecular weight and activity of proteolytic enzymes irradiated with
ultrasonic waves, Biokhimiia 24 no.5:817-822 S-O '59. (MIRA 13:2)

1. Institut biologicheskoy fiziki i Institut biokhimii im. A.N.
Bakha Akademii nauk SSSR, Moskva.
(PROTEASES chem.)
(ULTRASONICS eff.)

EL'PINER, I.Ye. & ZORINA, O.M.

Effect of ultrasonic waves on ribonuclease. *Biofizika* 5 no. 5:573-576 '60. (MIRA 13:10)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.
(RIBONUCLEASE) (ULTRASONIC WAVES—PHYSIOLOGICAL EFFECT)

EL'PINER, I.Ye.; ZORINA, O.M.

Peroxide radicals of protein formed by the action of ultrasonic waves.
Dokl. AN SSSR 134 no.6:1472-1474 O '60. (MIRA 13:10)

1. Institut biologicheskoy fiziki Akademii nauk SSSR. Predstavleno
akademikom A.I.Oparinym.

(ULTRASONIC WAVES---PHYSIOLOGICAL EFFECT)
(PROTEINS) (RADICALS (CHEMISTRY))

ZORINA O.M., ELPINER I. Ye. (USSR)

"Physicochemical Changes and the Activities of Enzymes Exposed
to Ultrasound."

Report presented at the 5th Int'l Biochemistry Congress,
Moscow, 10-16 Aug. 1961

ZORINA, O. M.

Cand Biol Sci - (diss) "Change in physico-chemical properties of proteins and ferments subjected to the action of ultrasonic waves." Moscow, 1961. 16 pp; (Academy of Sciences USSR, Inst of Biochemistry imeni A. N. Bakh, Inst of Biophysics); 250 copies; price not given; (KL, 10-61 sup, 210)

ZORINA, O.M.; STEKOL'NIKOV, L.I.; YEFIMOV, D.D.; EL'PINER, L.ife.

Effect of ultrasonic waves on the structure and immunobiological
function of γ -globulin. Biokhimiia 50 no.4:844-852 J1-Ag '65.
(MIRA 18:8)

L 26724-66

ACC NR. AP-01021-1 INDEXED CODE: NR/0217/65/020/016-0961/0965

A. Author: Sorina, L. V.; Stekolnikov, L. I.; El'piner, I. Ye.

Institution: Institute of Biologic Physics, AN SSSR, Moscow (Institut biologicheskoy fiziki AN SSSR)

Title: Physicochemical specific features and antigenic activity of fragments of human gamma globulin obtained under ultrasonic effect

SOURCE: Biofizika, v. 10, no. 6, 1965, 961-965

TOPIC TAGS: ultrasonic effect, gamma globulin, experiment animal, antigen, ~~protein, amino acid, immunology~~, protein, amino acid, immunology

ABSTRACT: Data are presented on the effect of protein fragments with molecular weight 10,000-20,000 on the immune response of mice. It is shown that these fragments are antigenic and induce the formation of antibodies. The antigenic activity of the fragments is determined by optical methods.

Card 1/2

UDC: 577.3

ZORINA, O.M.; STEKOL'NIKOV, L.I.; EL'PINER, I.Ye.

Physicochemical characteristics and antigenic activity of
separate fragments of human γ -globulin obtained under the
effect of ultrasonic waves. Biofizika 10 no.5:961-965 '65.
(MIRA 19:1)

1. Institut biologicheskoy fiziki AN SSSR, Moskva. Submitted
February 22, 1965.

ZORINA, O.N.

USSR/Inorganic Chemistry - Complex Compounds.

C.

Abs Jour : Ref Zhur - Khimiya, No 9, 1957, 30277

Author : Samsonov, G.V., Zorina, O.N.

Inst :

Title : Preparation and Some Properties of Thorium Hexaboride

Orig Pub : Zh. neorgan. khimii, 1956, 1, No 10, 2260-2263

Abst : Borides of Th were obtained by the method of vacuum-thermal reduction of Th oxide with carbon of boron carbide and carbon black, according to the reaction $2\text{ThO}_2 + 3\text{B}_4\text{C} + \text{C} \rightarrow 2\text{ThB}_6(\text{I}) + 4\text{CO}$. At 1300-1400° the process takes place very slowly while at 1800° it comes to completion within 35-45 minutes. If the reaction is conducted in such a manner as to obtain ThB_4 , that is according to the scheme $\text{ThO}_2 + \text{B}_4\text{C} + \text{C} \rightarrow \text{ThB}_4 + 2\text{CO}$, there is formed at 1250-1300° a product of composition $\text{Th}_x\text{B}_y\text{C}_z$ (II). Density of II is 7.552. II has a tetragonal

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Card 1/2

Moscow Inst Ferrous Metallurgy & Geol. in M.I. Kalinin

USSR/Inorganic Chemistry - Complex Compounds.

C.

Abs Jour : Ref Zhur - Khimiya, No 9, 1957, 30279

of B_2O_3). Solubility of \underline{I} at 20, 30, 40 and 50° has been determined, X-ray study has shown that \underline{I} is isomorphous with $KB_3O_7 \cdot 4H_2O$ (Zachariasen W.H., Z. Kristallogr., 1938, 98, 266); lattice parameters of \underline{I} : a 11.09, b 11.28, c 9.27 kX, β 1.55, β (x-ray) 1.549, $z = 4$.

Card 2/2

KRYUKOV, N.N.; SYURIN, V.N.; ZORINA, N.R.; SORV/CHEVA, Z.L.; SURIN, B.I.

Diagnosis of African swine fever by the hemadsorption reaction in leucocyte cultures. Veterinariia 42 no.10:19-22 O '65.

(MIRA 18:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut veterinarnoy virusologii i mikrobiologii.

YEZHEVA, P.S.; GUSEVA, L.T.; KURCHININA, P.G.; GUROVA, T.G.; MISHCHENKO,
G.I.; BERDNIKOVA, M.V.; TRAVINA, L.D.; ZORINA, P.T., red.

[Economy of Magadan Province; statistical collection] Narodnoe kho-
ziazstvo Magadanskoi oblasti; statisticheskii sbornik. Magadan,
1960. 110 p. (MIRA 14:10)

1. Magada (Province) Statisticheskoye upravleniye. 2. Rabotniki Ma-
gadanskogo oblastnogo statisticheskogo upravleniya (for all except
Zorin). 3. Nachal'nik Magadanskogo oblastnogo statisticheskogo upravle-
niya (for Zorin).

(Magadan Province—Statistics)

ZORINA, T. G.,

"Extrascholastic Work of Young Naturalists and Botanists Societies of the City of Moscow. (Study and Generalization of the Work Experience of Young Naturalists and Botanists Societies of Extrascholastic Institutions and Young Pioneer Camps of the City of Moscow Since 1948)." (Dissertation for Degree of Candidate of Pedagogic Sciences) Moscow City Pedagogic Inst imeni V. P. Potenkin, Moscow, 1955

SO: M-1036 28 Mar 56

RABINOVICH, P. D., kand. med. nauk; ZORINA, S. S. (Chita)

Hexonium treatment of peptic ulcer of the stomach and duodenum.
Klin. med. no.11:100-104 '61. (MIRA 14:12)

1. Iz kliniki gospi'tal'noy terapii (zav. - dotsent Ya. L. Lur'ye)
Chitinskogo meditsinskogo instituta (dir. - dotsent Yu. D. Ryzhkov)

(PEPTIC ULCER) (HEXONIUM)

GERING, Kh.; ZORINA, T.K.

Effect of temperature on the process of fertilization and development of grain in inbred corn. Dokl.AN SSSR 133 no.5:1243-1245
Ag '60. (MIRA 13:8)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.
Predstavleno akad. A.L. Kursanovym.
(Corn breeding)
(Plants, Effect of temperature on)
(Inbreeding)

ZORINA, I. M.

CA

Interaction of organomercury compounds with halogen derivatives of hydrocarbons. M. M. Koton, I. M. Zorina, and E. G. Gahery (Leningrad State Pedagog. Inst.), *J. Gen. Chem. (U.S.S.R.)* 17, 50-62 (1947) (in Russian).—PhHg does not react with CHCl_3 with either CHCl_3 or CHBr_3 but does react with CH_3I : a mixt. of 0.3 g. PhHg with 0.3 g. CH_3I heated in a sealed tube at 130° 3 hrs. gave 0.1 g. PhHgCl, m. $151-5^\circ$, and 0.14 g. PhHgI, m. $205-7^\circ$; heating of the same mixt. at the same temp. 5 hrs. gave 0.12 g. $\text{C}_6\text{H}_5\text{I}$ and 0.18 g. PhHgI. The reaction evidently proceeds in 2 stages: $\text{PhHg} + \text{CH}_3\text{I} \rightarrow \text{C}_6\text{H}_5\text{I} + \text{PhHgCl}$, and $2\text{PhHgCl} \rightarrow 2\text{PhHgI} + \text{C}_6\text{H}_5\text{I}$. Heating $\text{Hg}(\text{OAc})_2$ reacts readily with MeI and EtI. Heating 1 g. $\text{Hg}(\text{OAc})_2$ with 1 ml. MeI at 100° 1 hr. gave 1.31 g. HgI_2 , 0.02 g. AcOH , and 0.154 g. MeOAc. Under the same conditions, 1 ml. EtI yielded 1.22 g. HgI_2 , 0.02 g. AcOH , and 0.07 g. EtOAc. The same reaction with 1 ml. PhCH₂Cl at 130° 1 hr. evolved gaseous HCl and gave 0.30 g. HgCl_2 , 0.15 g. Hg_2Cl_2 , and 0.02 g. PhCH₂Cl. Heating 1 g. $\text{Hg}(\text{OAc})_2$ with 1 ml. PhBr at 130° 3 hrs. gave 1.32 g. HgBr_2 and 0.214 g. PhOAc. Reactions of $\text{Hg}(\text{OAc})_2$ (1 g.) with CHCl_3 , CHBr_3 , CH_3I , $\text{C}_6\text{H}_5\text{I}$, $\text{C}_6\text{H}_5\text{Br}$, and CCl_4 gave the following products (amounts in g.): Hg_2Cl_2 0.16, HgCl_2 0.22; Hg_2Br_2 0.12, HgBr_2 0.29; HgI_2 0.08; Hg_2I_2 0.02, HgI_2 0.11; Hg_2Cl_2 0.04, HgCl_2 0.12; Hg_2Cl_2 0.12.

ASB-51A METALLURGICAL LITERATURE CLASSIFICATION

ZORINA, T.M.

Reaction of organomercury compounds, R.Hg, with phenols. I. M. M. Kozlov and T. M. Zorina (Leningrad State Med. Inst.), J. Gen. Chem. (U.S.S.R.) 17, 1220-1221 (1947) (in Russian); cf. C.A. 43, 1416. R.Hg (0.3 g.) and 0.3 g. of a phenol were heated in a sealed tube for 12 hr. and the residual Hg was taken up in H₂SO₄ and decd. The following ams. of Hg (in %) were isolated after reaction of PhHg with various phenols: PhOH 1.06, hydroquinone 60.65, resorcinol 73.78, pyrogallol 73.41, phloroglucinol 78.65, 1-naphthol 83.89, 2-naphthol 65.24, p-aminophenol 10.3, guaiacol 6.78; p-, o-, and m-nitrophenol, trinitrophenol, p-bromophenol, and tribromophenol gave 0% Hg. When the reactions were conducted similarly but in 3 cc. EtOH, the following % of Hg were isolated: PhOH (130°) 0; pyrogallol (100°) 3.46, (130°) 71.47; resorcinol (130°) 0; p-nitrophenol (130°) 81.82; phloroglucinol (130°) 3.35; p-aminophenol (130°) 84.88; 2-naphthol (130°) 71.47; m-nitrophenol (130°) 65.61; p-nitrophenol (130°) 4.88; trinitrophenol (130°) 0; o-nitrophenol (130°) 0; tribromophenol (130°) 0; guaiacol (130°) 1.8. When (C₆H₅)₂Hg was substituted for PhHg, the following results (% Hg) were obtained: hydroquinone (2 hrs.) 0, (5 hrs.) 21.70; resorcinol (2 hrs.) 47.54; pyrogallol (2 hrs.) 54.3; 1-naphthol (2 hrs.) 81.4; pyrogallol in EtOH (1 hr.) 60.29, (2 hrs.) 46.92, (3 hrs.) 60.31, (4 hrs.) 60.29. PhHg (3 g.) and 3 g. o-nitrophenol kept 3 hrs. at 130°, then freed of benzene by distn., followed by treatment

with H₂O, EtOH, EtOAc, and benzene, gave 1.32 g. m.p. 128-30°, red (treatment with alc. HCl gave decomp. 128-30°, red (treatment with alc. HCl gave PhHgCl and o-nitrophenol); there was also formed 1.14 g. O₂N-C₆H₄(OH)(HgPh), does not m. 250°, yellow iodine soln., which also heated with alc. HCl, while iodine soln. gives 4,6-dinitro-2-nitrophenol, thus showing that the product was 4,6-bis(benzylmercury)-2-nitrophenol. Similar reaction of PhHg with m-nitrophenol gave O₂N-C₆H₄(OH)(HgPh), decomp. 169-80°, yellow, and O₂N-C₆H₄(OH)(HgPh), does not m. 240°. Similarly p-nitrophenol gave O₂N-C₆H₄(OH)(HgPh), decomp. 178-80°, and O₂N-C₆H₄(OH)(HgPh), does not m. 240°. Similarly 2,4,6-trinitrophenol gave the mono-mercury compound, decomp. 155-7°, yellow. Heating 1 g. PhHg and 3 g. p-aminophenol 3 hrs. to 130° gave 0.5 g. m.p. 143-4° (from EtOH), and 2.1 g. Br-C₆H₄(OH)(HgPh), m. 143-4° (from EtOH), and 2.1 g. colorless Br-C₆H₄(OH)(HgPh), which with alc. HCl under goes cleavage of the type given above, while in KBr soln. gives 2,4,6-tribromophenol; hence the product is 2,6-bis(benzylmercury)-4-bromophenol. Similar reaction of PhHg with 2,4,6-tribromophenol (2,4,6-tribromo-3-hydroxyphenyl)phenylmercury, m. 174-5° (decomp.). PhHg (2 g.), 0.5 g. phloroglucinol, and 3 cc. EtOH heated 4 hrs. to 130° gave 1.57 g. C₆(OH)(HgPh), grey, does not m. 290°, heating 3 hrs. gave insol. infusible C₆H(OH)(HgPh), PhHg (1.5 g.) and 0.5 g. resorcinol in 3 cc. EtOH heated 3 hrs. to 130° gave C₆H(OH)(HgPh), red, decomp. 130°, and C₆H(OH)(HgPh), dark red, insol., infusible solid. PhHg

LA ZORINA, T. M.

Reaction of diphenylmercury with aromatic aldehydes and ketones. M. M. Koton and T. M. Zorina. *Zhur. Obshch. Khim.* (J. Gen. Chem.) 19, 1137-40 (1949). PhHg (0.5 g.) and 0.5 g. *o*-HO₂C₆H₄CHO after 3 hrs. at 150° in a sealed tube gave 0.15 g. PhHgC₆H₄(OH)CHO, yellow, m. 81-3° (from petr. ether); this yields PhHgCl on standing in a Me₂CO-EtOH soln. of HCl; 0% Hg is also formed in the synthesis. If the heating is extended to 6 hrs., much tar forms, as well as 12.7% Hg. A similar 3-hr. reaction with AcPh gave 0.12 g. PhHgC₆H₄Ac, m. 105-6° (from EtOH-Et₂O), which also gives PhHgCl with alc. HCl; 1.06% Hg is formed in the synthesis. PhHg (0.7 g.) and 0.2 g. PhCH:CHPh after 3 hrs. at 160° give 0.35 g. PhHgC₆H₄CH:CHPh, m. 88-90° (from Et₂O), which behaves as described above; no Hg was detected. PhCH:CHAc in 3 hrs. gave 0.3 g. PhHgC₆H₄CH:CHAc, m. 85-7° (from Et₂O), and 1.7% Hg; extension to 6 hrs. gave 6.7% Hg. PhCO, PhOMe, C₆H₅Me, Me₂CO, and fluorenone failed to react even in 6 hrs. Cinnamaldehyde and furfurylidenacetone gave tars and 30.75% and 11.9% Hg, resp., in 3 hrs., or 40.13 and 39.60% in 6 hrs. PhCH:CH₂ in 6 hrs. gave 6.3% Hg. Cyclohexanone gave 4.59% Hg in 3 hrs. and 22.5% in 6 hrs. G. M. K.

Chris Gen. Chemistry.
Leningrad State Pedagogic Inst. Inst.